```python
class Student(models.Model):
    name = models.CharField(max_length=100)
    age = models.IntegerField()
    address = models.ForeignKey(Address, on_delete=models.CASCADE)
    profile_picture = models.ImageField(upload_to='images/', blank=True, null=True)


    def __str__(self):
        return self.name

#Lab 10
class Address1(models.Model):
    city = models.CharField(max_length=100)

    def __str__(self):
        return self.city


class Student1(models.Model):
    name = models.CharField(max_length=100)
    age = models.IntegerField()
    addresses = models.ManyToManyField(Address2, related_name="students")
    profile_picture = models.ImageField(upload_to='images/', blank=True, null=True)

    def __str__(self):
        return self.name

class ProfilePicture(models.Model):
    student = models.OneToOneField(Student, on_delete=models.CASCADE)
    image = models.ImageField(upload_to='images/')
```

```python
class AddressForm(forms.ModelForm):
    class Meta:
        model = Address
        fields = ['city']

class StudentForm(forms.ModelForm):
    class Meta:
        model = Student
        fields = ['name', 'age', 'address', 'profile_picture']

class Address2Form(forms.ModelForm):
    class Meta:
        model = Address2
        fields = ['city']

class Student2Form(forms.ModelForm):
    class Meta:
        model = Student2
        fields = ['name', 'age', 'addresses', 'profile_picture']
        widgets = {
            'addresses': forms.CheckboxSelectMultiple(),
        }

class ProfilePictureForm(forms.ModelForm):
        model = ProfilePicture
        fields = ['student', 'image']
```

```python
#Lab 10
# List all students
def list_students(request):
    students = Student.objects.all()
    return render(request, 'bookmodule/list_students.html', {'students'

# Add a student
def add_student(request):
    if request.method == 'POST':
        form = StudentForm(request.POST, request.FILES)
        if form.is_valid():
            form.save()
            return redirect('list_students')
    else:
        form = StudentForm()
    return render(request, 'bookmodule/add_student.html', {'form': form

# Update a student
def update_student(request, id):
    student = get_object_or_404(Student, id=id)
    if request.method == 'POST':
        form = StudentForm(request.POST, request.FILES, instance=student
        if form.is_valid():
            form.save()
            return redirect('list_students')
    else:
        form = StudentForm(instance=student)
    return render(request, 'bookmodule/update_student.html', {'form': f
```

```python
# Delete a student
def delete_student(request, id):
    student = get_object_or_404(Student, id=id)
    student.delete()
    return redirect('list_students')

#Lab10 Task2
def list_students2(request):
    students = Student2.objects.all()
    return render(request, 'bookmodule/list_student2.html', {'students

def add_student2(request):
    if request.method == 'POST':
        form = Student2Form(request.POST, request.FILES)
        if form.is_valid():
            form.save()
            return redirect('list_students2')
    else:
        form = Student2Form()
    return render(request, 'bookmodule/add_student2.html', {'form': fo

def update_student3(request, id):
    student = get_object_or_404(Student2, id=id)
    if request.method == 'POST':
        form = Student2Form(request.POST, request.FILES, instance=stude
        if form.is_valid():
            form.save()
            return redirect('list_students2')
    else:
        form = Student2Form(instance=student
```

```python
def update_student2(request, id):
    student = get_object_or_404(Student2, id=id)
    if request.method == 'POST':
        form = Student2Form(request.POST, request.FILES, instance=student)
        if form.is_valid():
            form.save()
            return redirect('list_students2')
    else:
        form = Student2Form(instance=student)
    return render(request, 'bookmodule/update_student2.html', {'form': form})

def delete_student2(request, id):
    student = get_object_or_404(Student2, id=id)
    student.delete()
    return redirect('list_students2')

#Lab10 Task3
def upload_profile_picture(request):
    if request.method == 'POST':
        form = ProfilePictureForm(request.POST, request.FILES)
        if form.is_valid():
            form.save()
            return redirect('student_list')
    else:
        form = ProfilePictureForm()
    return render(request, 'bookmodule/upload_picture.html', {'form': form})
```

```html
</head>
<body>
    <h1>List of Students</h1>
    <a href="{% url 'add_student' %}">Add Student</a>
    <ul>
        {% for student in students %}
            <li>
                {{student.id}}
                Name: {{ student.name }}
                <br>
                Age: {{ student.age }}
                <br>
                Address: {{student.address}}
                <br>
                Profile Picture:
                {% if student.profile_picture %}
                    <img src="{{ student.profile_picture.url }}" alt="Profile Picture" width="100">
                {% else %}
                    No profile picture available.
                {% endif %}
                <br><br>
                <a href="{% url 'update_student' student.id %}">Edit</a> |
                <a href="{% url 'delete_student' student.id %}">Delete</a>
                <br>
                <br>
            </li>
        {% empty %}
            <p>No students available.</p>
        {% endfor %}
    </ul>
```

```html
<body>
    <a href="{% url 'add_student2' %}">Add Student</a>
    <ul>
        {% for student in students %}
            <li>
                {{student.id}}
                Name: {{ student.name }}
                <br>
                Age: {{ student.age }}
                <br>
                Address:
                    {% for address in student.addresses.all %}
                        {{ address.city }},
                    {% endfor %}
                <br>
                Profile Picture:
                {% if student.profile_picture %}
                    <img src="{{ student.profile_picture.url }}" alt="Profile Picture" width="100"/>
                {% else %}
                    No profile picture available.
                {% endif %}
                <br>
                <a href="{% url 'update_student2' student.id %}">Edit</a> |
                <a href="{% url 'delete_student2' student.id %}">Delete</a>
                <br>
                <br>
            </li>
        {% empty %}
            <p>No students available.</p>
```

add_student.html:
```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Add Student</title>
</head>
<body>
    <h1>Add Student (2)</h1>
    <form method="POST" enctype="multipart/form-data">
        {% csrf_token %}
        {{ form.as_p }}
        <button type="submit">Add Student</button>
    </form>
</body>
</html>
```

add_student2.html:
```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Add Student</title>
</head>
<body>
    <h1>Add Student (2)</h1>
    <form method="POST" enctype="multipart/form-data">
        {% csrf_token %}
        {{ form.as_p }}
        <button type="submit">Add Student</button>
    </form>
</body>
</html>
```

update_student.html:
```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Edit Student</title>
</head>
<body>
    <h1>Edit Student</h1>
    <form method="POST" enctype="multipart/form-data">
        {% csrf_token %}
        {{ form.as_p }}
        <button type="submit">Save Changes</button>
    </form>
    {% if student.profile_picture %}
        <h3>Current Profile Picture:</h3>
        <img src="{{ student.profile_picture.url }}" alt="Profile Picture"
    {% endif %}
    <a href="{% url 'list_students' %}">Back to List</a>
</body>
</html>
```

update_student2.html:
```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Edit Student</title>
</head>
<body>
    <h1>Edit Student (2)</h1>
    <form method="POST" enctype="multipart/form-data">
        {% csrf_token %}
        {{ form.as_p }}
        <button type="submit">Save Changes</button>
    </form>
    {% if student.profile_picture %}
        <h3>Current Profile Picture:</h3>
        <img src="{{ student.profile_picture.url }}" alt="Profile Pictu
    {% endif %}
    <a href="{% url 'list_students2' %}">Back to List</a>
</body>
</html>
```

list_students2.html U add_student.html U add_students3.html U update_student.html U update_student2.html U upload_picture.html U ×

C: > Users > dbdin > OneDrive > المكتب سطح > WebTech > libraryproject > apps > booksmodule > templates > 🟧 upload_picture.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Upload Picture</title>
</head>
<body>
    <h1>Upload Picture</h1>
<form method="post" enctype="multipart/form-data">
    {% csrf_token %}
    {{ form.as_p }}
    <button type="submit">Upload</button>
</form>
</body>
</html>
```

List of Students

Add Student

- 4 Name: Redd Milksop
  Age: 37
  Address: Chicago Dallas
  Profile Picture: No profile picture available.

  Edit | Delete

- 5 Name: Simonne Edling
  Age: 79
  Address: San Jose
  Profile Picture: Profile Picture

  Edit | Delete

- 6 Name: Farra Stevani
  Age: 33
  Address: San Jose
  Profile Picture: No profile picture available.

  Edit | Delete

- 8 Name: Rhetta Alsop
  Age: 38
  Address: Chicago Dallas
  Profile Picture: No profile picture available.

List of Students (2)

Add Student

- 1 Name: Sharikha
  Age: 27
  Address: Gardinovci, Ivyanyets, Gzy,
  Profile Picture: Profile Picture
  Edit | Delete

- 2 Name: monxsow
  Age: 32
  Address: Cartagena,
  Profile Picture: No profile picture available.
  Edit | Delete

- 3 Name: Rayshell Loache
  Age: 43
  Address: Cartagena,
  Profile Picture: No profile picture available.
  Edit | Delete

- 4 Name: Dinny Scranny
  Age: 33
  Address: Kota Kinabalu,
  Profile Picture: No profile picture available.
  Edit | Delete

- 5 Name: Sylvia Hargess
  Age: 26

Add Student

Name: [_____]

Age: [_____]

Address: [——— ∨]

Profile picture: [Choose File] No file chosen

[Add Student]

Add Student (2)

Name: [_____]

Age: [_____]

Addresses:

- ☐ Tournan-en-Brie
- ☐ Cartagena
- ☐ San Jose
- ☐ Drtõünharna
- ☐ Gardinovci
- ☐ Armação de Pêra
- ☐ Ningzhong
- ☐ Lido
- ☐ Kota Kinabalu
- ☐ Solomenskoye
- ☐ Svenljunga
- ☐ Yõki
- ☐ Duluth
- ☐ Nanzamu
- ☐ Jiannan
- ☐ Ivyanyets
- ☐ Nowa Sól
- ☐ Formosa
- ☐ Kostanay
- ☐ Huaqiao

Edit Student

Name: [Keelia Canellas]

Age: [42]

Address: [Philadelphia ∨]

Profile picture: [Choose File] No file chosen

[Save Changes]
Back to List

Edit Student (2)

Name: [Sharikha]

Age: [27]

Addresses:

- ☐ Tournan-en-Brie
- ☐ Cartagena
- ☐ San Jose
- ☐ Drtõünharna
- ☑ Gardinovci
- ☐ Armação de Pêra
- ☐ Ningzhong
- ☐ Lido
- ☐ Kota Kinabalu
- ☐ Solomenskoye
- ☐ Svenljunga
- ☐ Yõki
- ☐ Duluth
- ☐ Nanzamu
- ☐ Jiannan
- ☑ Ivyanyets
- ☐ Nowa Sól
- ☐ Formosa
- ☐ Kostanay
- ☐ Huaqiao